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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/593,864	06/15/2000	Tooru Kamibayashi	04329.2319	9097	
22852	7590 06/17/2004		EXAMINER		
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			NORRIS, TREMAYNE M		
LLP 1300 I STRI	EET. NW		ART UNIT PAPER NUMBER		
	TON, DC 20005		2137		
			DATE MAILED: 06/17/2004	4 <i>l</i>	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applica	ation No.	Applicant(s)	ha
•	09/593	,864	KAMIBAYASHI ET AL.	71
Office Action Summary	Examin	er	Art Unit	
	Tremay	ne M. Norris	2137	
The MAILING DATE of this comm Period for Reply	unication appears on t	the cover sheet with the o	correspondence address	\$
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provisi after SIX (6) MONTHS from the mailing date of this co - If the period for reply specified above is less than thirt If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for re Any reply received by the Office later than three mont earned patent term adjustment. See 37 CFR 1.704(b)	JNICATION. ons of 37 CFR 1.136(a). In no ommunication. y (30) days, a reply within the s n statutory period will apply and apply will, by statute, cause the a ths after the mailing date of this	event, however, may a reply be tirestatutory minimum of thirty (30) day if will expire SIX (6) MONTHS from application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communities (Communication of the communication of the communicati	ication.
Status				
1) Responsive to communication(s)	filed on <u>15 June 20</u> 00),		
2a)⊠ This action is FINAL .	2b)☐ This action is			
3) Since this application is in condition	on for allowance exce	pt for formal matters, pro	osecution as to the mer	its is
closed in accordance with the pra	ctice under <i>Ex parte</i> (Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims				
4) Claim(s) 1-9 is/are pending in the	application.			
4a) Of the above claim(s) is	s/are withdrawn from o	consideration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-9</u> is/are rejected.				
7) Claim(s) is/are objected to				
8) Claim(s) are subject to res	triction and/or election	requirement.		
Application Papers				
9) The specification is objected to by	the Examiner.			
10)⊠ The drawing(s) filed on <u>15 June 2</u> 6	<u>200</u> is/are: a)∐ acce _l	pted or b)⊠ objected to	by the Examiner.	
Applicant may not request that any ol	ojection to the drawing(s	s) be held in abeyance. Se	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) include	ing the correction is requ	uired if the drawing(s) is ob	jected to. See 37 CFR 1.1	121(d).
11)☐ The oath or declaration is objected	to by the Examiner.	Note the attached Office	Action or form PTO-15	52.
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim a) All b) Some * c) None of 1. Certified copies of the prior 2. Certified copies of the prior 3. Copies of the certified copies application from the Internal	ity documents have be ity documents have be es of the priority docur	een received. een received in Applicat ments have been receive	ion No	e
* See the attached detailed Office ac	•		ed.	
Attachment(s)	١			
1) Notice of References Cited (PTO-892)	·· (DTO 048)	4) Interview Summary Paper No(s)/Mail D		
 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1445) 			Patent Application (PTO-152)	
Paper No(s)/Mail Date	•	6)		

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection. It is viewed that the AV decoder is a component that is a part of the recording/reproducing apparatus (col.6 lines 55-57). It is viewed that the optical disc and optical disc drive are one entity because the optical disc drive reads the encrypted key information from the optical disc and then uses that information for the mutual authentication process (fig.15; col.23 lines 42-45; col.24 lines 8-10). Therefore, the examiner maintains the rejection given below.

Drawings

1. The drawings are objected to because reference number "S305" generates random number "R1" when it should be "R2". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-9 rejected under 35 U.S.C. 102(e) as being anticipated by Ueda et al.

Regarding Claim 1, Ueda et al teach a mutual authentication method for use between a recording apparatus which records copied contents on a recording medium having an arithmetic processing function, and the recording medium, said method comprising the steps of:

storing in the recording medium at least first information which depends on the recording medium, and second information which is to be shared by the recording apparatus in executing mutual authentication with the recording apparatus and depends on the recording medium; and

generating by the recording apparatus authentication information used in mutual authentication with the recording medium on the basis of only the first information obtained from the recording medium, and executing mutual authentication between the recording apparatus and the recording medium using the generated authentication information and the second information (col.2 line 61 thru col.3 line 5; col.3 line 45 thru col.5 line 64), wherein executing the mutual authentication includes the steps of

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generating a random number in the recording apparatus and transferring the random number to the recording medium (col.37 line 18-23),

generating a first function in the recording apparatus using the generated authentication information and the generated random number (col.37 lines 45-49),

generating a second function in the recording medium using the generated second information and the transferred random number, and transferring the second function to the recording apparatus (col.37 lines 34-37), and

comparing the generated first function with the generated second function in the recording apparatus (col.37 lines 49-51).

Regarding Claim 2, Ueda et al teach the method according to claim 1, further comprising the step of: generating the authentication information by encrypting the first information using an encryption key obtained from the recording medium (col.4 lines 3-4; col.4 lines 43-51).

Regarding Claim 3, Ueda et al teach a mutual authentication method for use between a reproducing apparatus which reproduces copied contents recorded on a recording medium having an arithmetic processing function, and the recording medium, said method comprising the steps of:

storing in the recording medium at least first information which depends on the recording medium, and second information which is to be shared by the reproducing

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apparatus in executing mutual authentication with the reproducing apparatus and depends on the recording medium; and

generating by the reproducing apparatus authentication information used in mutual authentication with the recording medium on the basis of only the first information obtained from the recording medium, and executing mutual authentication between the reproducing apparatus and the recording medium using the generated authentication information and the second information (col.2 line 61 thru col.3 line 5; col.3 line 45 thru col.5 line 64), wherein executing the mutual authentication includes the steps of

generating a random number in the reproducing apparatus and transferring the random number to the recording medium (col.37 line 18-23),

generating a first function in the reproducing apparatus using the generated authentication information and the generated random number (col.37 lines 45-49),

generating a second function in the recording medium using the generated second information and the transferred random number, and transferring the second function to the reproducing apparatus (col.37 lines 34-37), and

comparing the generated first function with the generated second function in the reproducing apparatus (col.37 lines 49-51).

Regarding Claim 4, Ueda et al teach the method according to claim 3, further comprising the step of:

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generating the authentication information by encrypting the first information using an encryption key obtained from the recording medium (col.4 lines 3-4; col.4 lines 43-51).

Regarding Claim 5, Ueda et al teach a recording apparatus for recording copied contents on a recording medium while limiting the number of copied contents to be recorded on the recording medium, said apparatus comprising:

generation means for generating authentication information, which is used in mutual authentication with the recording medium and is to be shared by the recording medium, on the basis of first information which is obtained from the recording medium and depends on the recording medium; and

mutual authentication means for executing mutual authentication with the recording medium using the authentication information generated by said generation means (col.2 line 61 thru col.3 line 5; col.3 line 45 thru col.5 line 64; col.18 lines 10-32; col.21 lines 25-29), wherein the mutual authentication means includes

means for generating a random number and transferring the random number to the recording medium (col.37 line 18-23),

means for generating a first function using the generated authentication information and the generated random number (col.37 lines 45-49),

means for receiving from the recording medium a second function generated using second information and the transferred random number (col.37 lines 34-37), and

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means for comparing the generated first function with the generated second function (col.37 lines 49-51).

Regarding Claim 6, Ueda et al teach an apparatus according to claim 5, wherein said generation means generates the authentication information by encrypting the first information using an encryption key obtained from the recording medium (col.4 lines 3-4; col.4 lines 43-51).

Regarding Claim 7, Ueda et al teach a reproducing apparatus for reproducing copied contents recorded on a recording medium while limiting the number of copied contents to be recorded on the recording medium, said apparatus comprising:

generation means for generating authentication information, which is used in mutual authentication with the recording medium and is to be shared by the recording medium, on the basis of first information which is obtained from the recording medium and depends on the recording medium; and

mutual authentication means for executing mutual authentication with the recording medium using the authentication information generated by said generation means (col.2 line 61 thru col.3 line 5; col.3 line 45 thru col.5 line 64; col.18 lines 10-32; col.21 lines 25-29), wherein the mutual authentication means includes

means for generating a random number and transferring the random number to the recording medium (col.37 line 18-23),

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means for generating a first function using the generated authentication information and the generated random number (col.37 lines 45-49),

means for receiving from the recording medium a second function generated using second information and the transferred random number (col.37 lines 34-37), and means for comparing the generated first function with the generated second function (col.37 lines 49-51).

Regarding Claim 8, Ueda et al teach an apparatus according to claim 7, wherein said generation means generates the authentication information by encrypting the first information using an encryption key obtained from the recording medium (col.4 lines 3-4; col.4 lines 43-51).

Regarding Claim 9, Ueda et al teach a recording medium having an arithmetic processing function, comprising:

storage means for pre-storing first information which is unique to said recording medium, and second information which is to be shared by a recording apparatus for recording copied contents on said recording medium and a reproducing apparatus for reproducing the copied contents in executing mutual authentication among the recording medium, the recording apparatus, and the reproducing apparatus, and depends on said recording medium; and

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mutual authentication means for executing mutual authentication between the recording medium and the recording apparatus, and between the recording medium and the reproducing apparatus using authentication information generated based on the first information by the recording apparatus and the reproducing apparatus, and the second information (col.4 lines 3-4; col.4 lines 43-51), wherein the mutual authentication means includes

means for generating a random number and transferring the random number to one of the recording apparatus and the reproducing apparatus (col.37 lines 59-63),

means for generating a first function using the generated authentication information and the generated random number (col.38 lines 13-17),

means for receiving from one of the recording apparatus and the reproducing apparatus a second function generated using the authentication information and the transferred random number (col.38 lines 4-13), and

means for comparing the generated first function with the generated second function (col.38 lines 17-19).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tremayne M. Norris whose telephone number is (703) 305-8045. The examiner can normally be reached on M-F 7:30AM-5:00PM alternate Fridays.

than SIX MONTHS from the mailing date of this final action.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on (703) 305-4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tremayne Norris

June 3, 2004

MATTHEW SMITHERS
PRIMARY EXAMINER
ANT UNIT 2137